

EXXTRAL®

The AlTiN-based coating for high-performance cutting



A hard coating specially developed for hard, dry and high-speed machining.

COATING ADVANTAGES

- » Higher cutting speeds
- » Longer service life
- » Improved surface quality
- » Dry machining
- » No cooling lubricant required
- » High resistance towards oxidation (800 °C)
- » High hot hardness
- » Chemical resistance
- » Low thermal conductivity coefficient

COATING PROPERTIES

Hardness	3,300 ±300 HV
Coating thickness	2 – 5 µm
Maximum operating temperature	800 °C / 1,470 °F
Coefficient of friction against steel	0.7
Colour	anthracite
Coating composition	AlTiN-based

APPLICATIONS

Cutting	Machining (milling, drilling, turning, etc.) under demanding operating conditions
Forming	Semi hot work, hot work